

Luminaire Photograph



Light Output Ratio:	84.4%	
Luminaire Power:	11.1 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-8-4

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

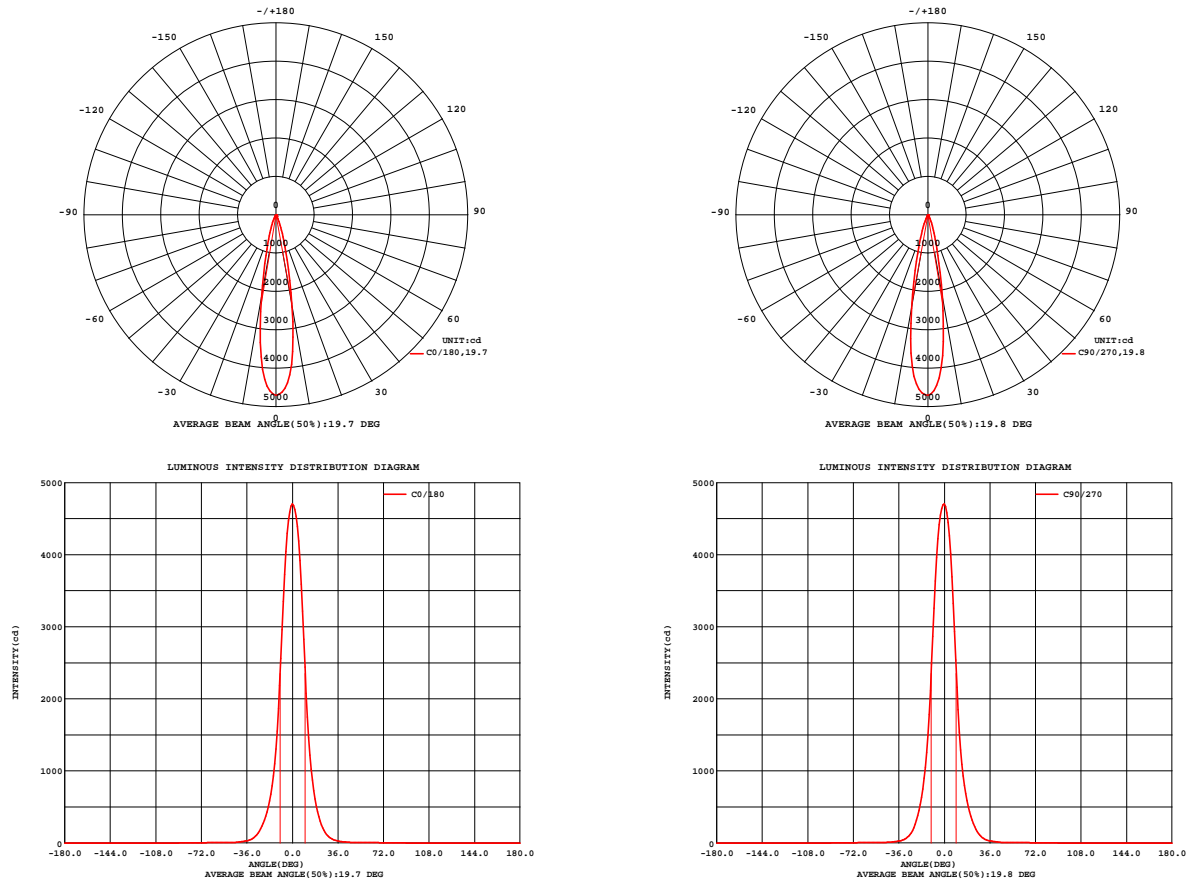


Fig. C0/C180

Fig. C90/C270

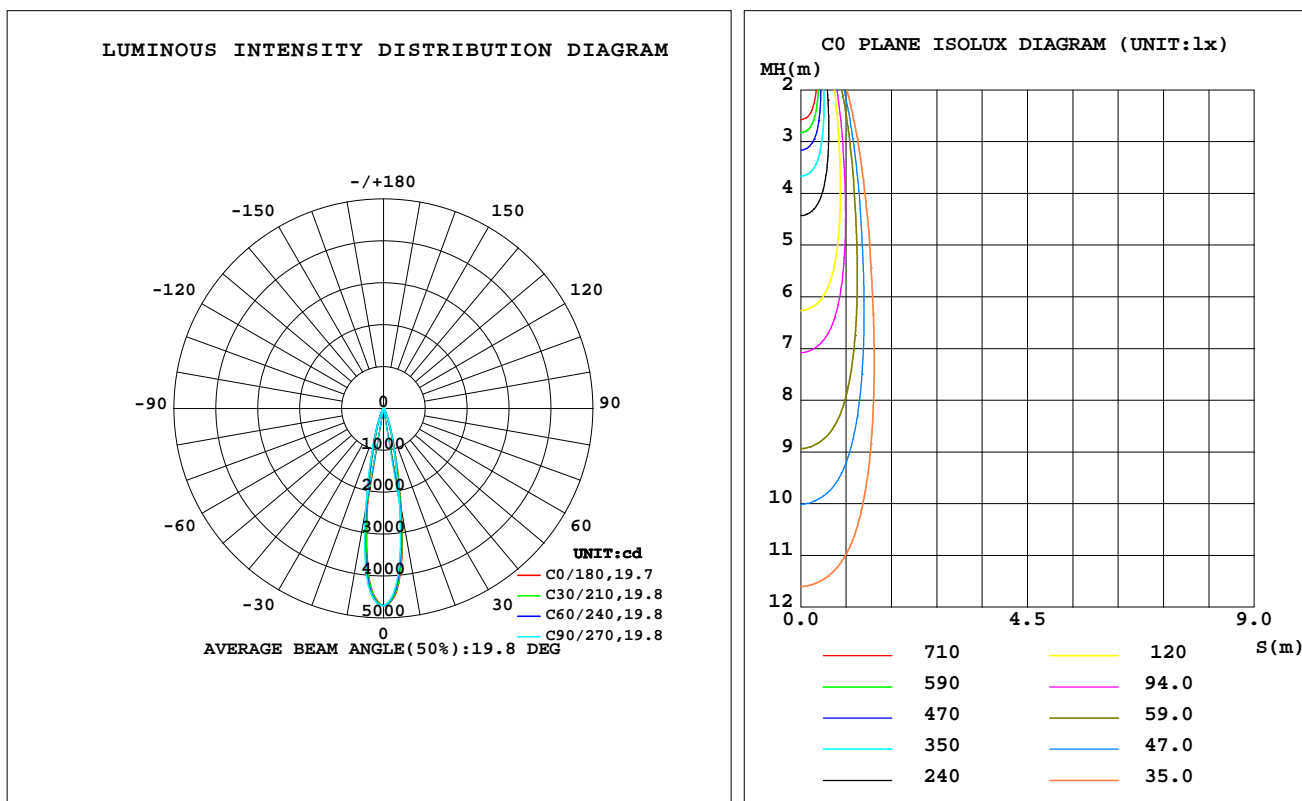
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040976
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 68.22 lm/W
MODEL	CREE	Imax(cd)	4705	S/MH(C0/180)	0.33	
NOMINAL POWER(W)	11	LOR(%)	84.4	S/MH(C90/270)	0.35	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	757.07	η UP,DN(C0-180)	0.0,41.6	
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,42.8	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	220	η down(%)	84.4	CIBSE SHR MAX	0.30	



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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

ZONAL FLUX DIAGRAM

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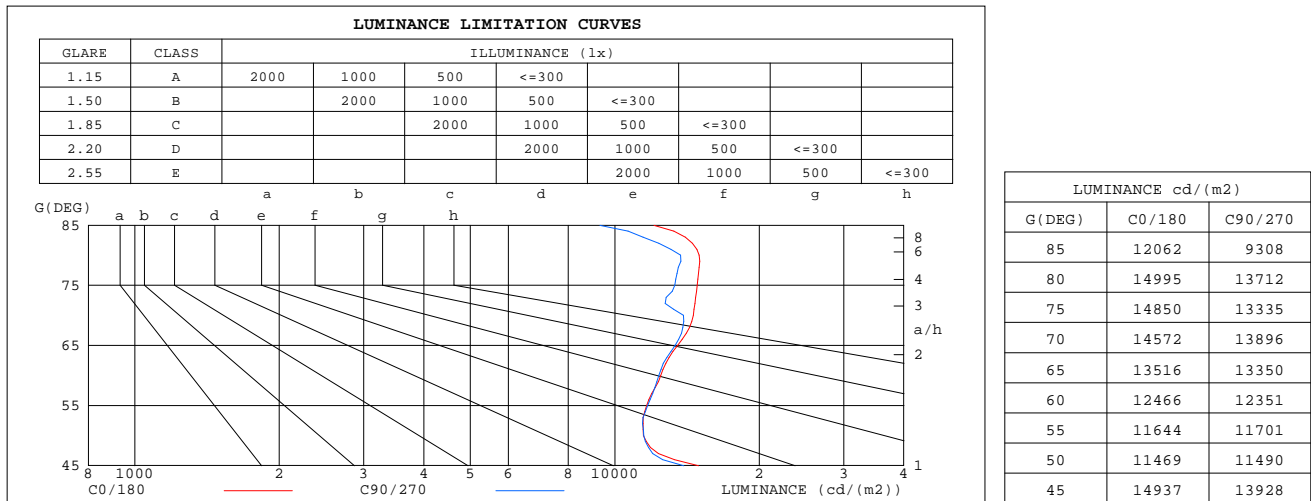
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2438	2294	2160	2155	2183	2329	2478	2476	0- 10	331.8	331.8	43.8,37
20	433.7	426.9	432.2	439.7	430.5	443.0	449.7	436.9	10- 20	290.1	621.9	82.2,69.4
30	68.98	69.27	74.06	82.20	78.27	70.69	65.35	66.36	20- 30	90.95	712.9	94.2,79.5
40	17.34	17.74	18.14	18.67	18.26	17.50	16.80	16.57	30- 40	22.55	735.4	97.1,82
50	6.297	6.336	6.316	6.343	6.250	6.353	6.408	6.349	40- 50	7.526	743.0	98.1,82.9
60	5.324	5.345	5.281	5.267	5.210	5.320	5.340	5.315	50- 60	5.157	748.1	98.8,83.4
70	4.257	4.191	4.064	4.046	4.017	4.069	4.152	4.220	60- 70	4.748	752.9	99.4,84
80	2.224	2.177	2.036	1.890	1.982	2.033	2.048	2.202	70- 80	3.280	756.2	99.9,84.3
90	0	0	0	0	0	0	0	0	80- 90	0.9143	757.1	100,84.4
100	0	0	0	0	0	0	0	0	90-100	0	757.1	100,84.4
110	0	0	0	0	0	0	0	0	100-110	0	757.1	100,84.4
120	0	0	0	0	0	0	0	0	110-120	0	757.1	100,84.4
130	0	0	0	0	0	0	0	0	120-130	0	757.1	100,84.4
140	0	0	0	0	0	0	0	0	130-140	0	757.1	100,84.4
150	0	0	0	0	0	0	0	0	140-150	0	757.1	100,84.4
160	0	0	0	0	0	0	0	0	150-160	0	757.1	100,84.4
170	0	0	0	0	0	0	0	0	160-170	0	757.1	100,84.4
180	0	0	0	0	0	0	0	0	170-180	0	757.1	100,84.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMAL306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040976
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:



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C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
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Test Date:2023-8-4

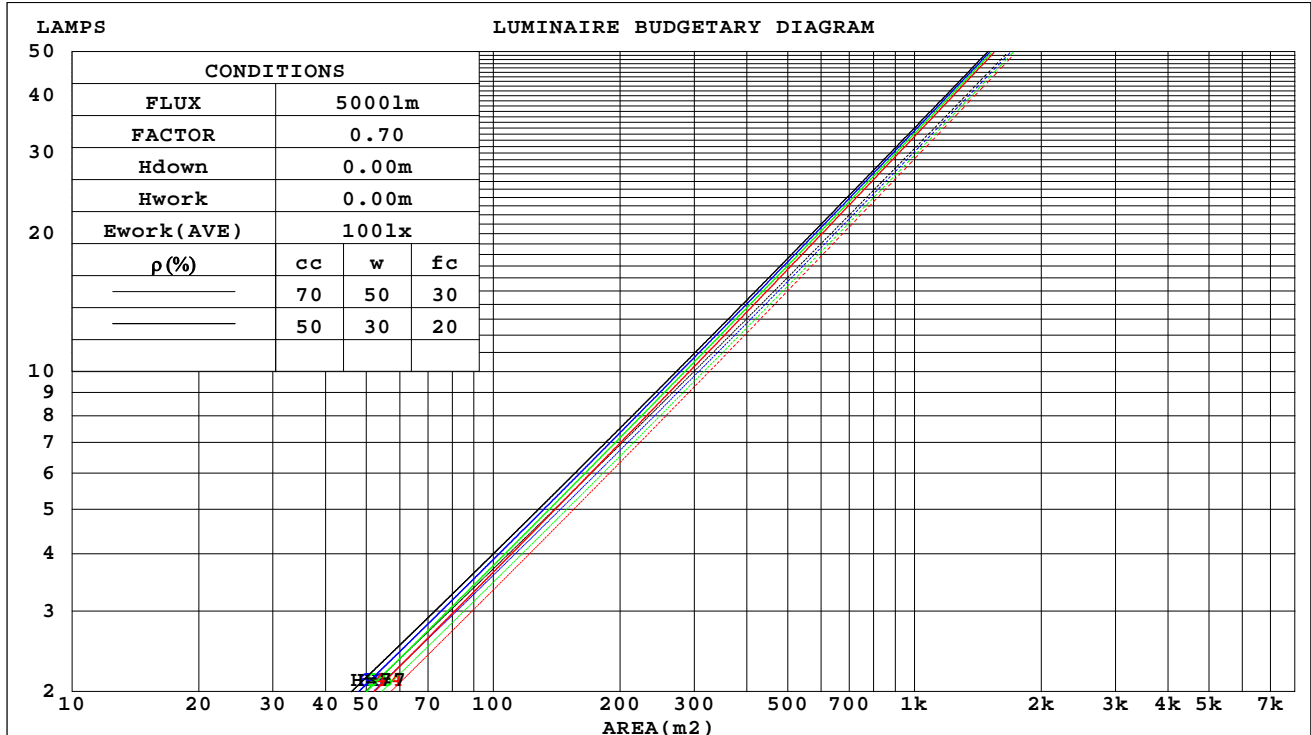
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308040976
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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Test Distance:3.160m [K=1.0000]
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30minutes warm-up

WEC AND CCEC

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NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040976
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.115	.065	.021	.110	.063	.020	.099	.057	.018	.090	.052	.017	.081	.047	.015	
2.0	.106	.058	.018	.101	.056	.017	.093	.052	.016	.085	.048	.015	.077	.044	.014	
3.0	.098	.052	.016	.094	.050	.015	.087	.047	.014	.080	.044	.014	.074	.041	.013	
4.0	.091	.047	.014	.088	.046	.014	.082	.043	.013	.076	.041	.012	.071	.039	.012	
5.0	.085	.043	.013	.083	.042	.012	.077	.040	.012	.073	.038	.011	.068	.036	.011	
6.0	.080	.040	.012	.078	.039	.011	.074	.038	.011	.069	.036	.011	.066	.035	.010	
7.0	.076	.037	.011	.074	.037	.010	.070	.035	.010	.066	.034	.010	.063	.033	.010	
8.0	.072	.035	.010	.070	.035	.010	.067	.033	.010	.064	.032	.009	.061	.031	.009	
9.0	.068	.033	.009	.067	.033	.009	.064	.032	.009	.061	.031	.009	.059	.030	.009	
10.0	.065	.031	.009	.064	.031	.009	.061	.030	.008	.059	.029	.008	.057	.028	.008	

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.161	.161	.161	.137	.137	.137	.094	.094	.094	.054	.054	.054	.017	.017	.017		
1.0	.142	.133	.125	.122	.114	.108	.083	.079	.074	.048	.045	.043	.015	.015	.014		
2.0	.127	.112	.100	.109	.096	.086	.074	.067	.060	.043	.039	.035	.014	.013	.011		
3.0	.114	.096	.081	.098	.082	.070	.067	.057	.049	.039	.033	.029	.012	.011	.010		
4.0	.103	.083	.067	.088	.071	.058	.061	.050	.041	.035	.029	.024	.011	.009	.008		
5.0	.094	.072	.056	.081	.062	.049	.056	.044	.034	.032	.026	.020	.010	.008	.007		
6.0	.086	.064	.047	.074	.055	.041	.051	.039	.029	.030	.023	.017	.010	.007	.006		
7.0	.080	.057	.041	.068	.049	.035	.047	.034	.025	.027	.020	.015	.009	.007	.005		
8.0	.074	.051	.035	.064	.044	.031	.044	.031	.022	.026	.018	.013	.008	.006	.004		
9.0	.069	.046	.031	.059	.040	.027	.041	.028	.019	.024	.017	.011	.008	.005	.004		
10.0	.065	.042	.027	.056	.036	.023	.039	.026	.017	.023	.015	.010	.007	.005	.003		

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Operators:zoe
Test Date:2023-8-4

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm										
NAME: 2214.412-1-ACOT-97					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2308040976		
MFR.: RISE					SUR.: 0.000854865m2			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	13.2	13.8	13.4	14.0	14.1	13.2	13.8	13.4	14.0	14.1
3H	14.7	15.3	14.9	15.5	15.7	14.7	15.2	14.9	15.4	15.6
4H	15.5	16.0	15.7	16.2	16.5	15.3	15.9	15.6	16.1	16.3
6H	16.1	16.7	16.4	16.9	17.1	15.9	16.4	16.2	16.7	16.9
8H	16.4	16.9	16.7	17.2	17.4	16.1	16.6	16.4	16.8	17.1
12H	16.5	17.0	16.8	17.3	17.6	16.2	16.7	16.5	16.9	17.2
4H 2H	13.7	14.3	13.9	14.5	14.7	13.7	14.3	14.0	14.5	14.7
3H	15.5	16.0	15.8	16.3	16.5	15.4	15.9	15.7	16.2	16.5
4H	16.4	16.9	16.8	17.2	17.5	16.2	16.7	16.6	17.0	17.3
6H	17.2	17.6	17.6	18.0	18.3	17.0	17.4	17.4	17.7	18.1
8H	17.5	17.9	17.9	18.3	18.6	17.2	17.6	17.6	18.0	18.3
12H	17.7	18.1	18.1	18.4	18.8	17.4	17.7	17.8	18.1	18.5
8H 4H	16.8	17.1	17.1	17.5	17.8	16.6	17.0	17.0	17.3	17.7
6H	17.7	18.0	18.2	18.4	18.8	17.5	17.8	17.9	18.2	18.6
8H	18.1	18.4	18.6	18.8	19.3	17.8	18.1	18.3	18.5	19.0
12H	18.4	18.6	18.9	19.1	19.5	18.0	18.3	18.5	18.7	19.2
12H 4H	16.8	17.1	17.2	17.5	17.9	16.6	17.0	17.0	17.3	17.7
6H	17.8	18.1	18.3	18.5	18.9	17.6	17.9	18.0	18.3	18.7
8H	18.3	18.5	18.7	18.9	19.4	18.0	18.2	18.4	18.7	19.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.4					+ 0.4 / - 0.4				
1.5H	+ 0.7 / - 0.4					+ 1.0 / - 0.4				
2.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.000854865 m2

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Operators:zoe
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
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30minutes warm-up

UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308040976
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

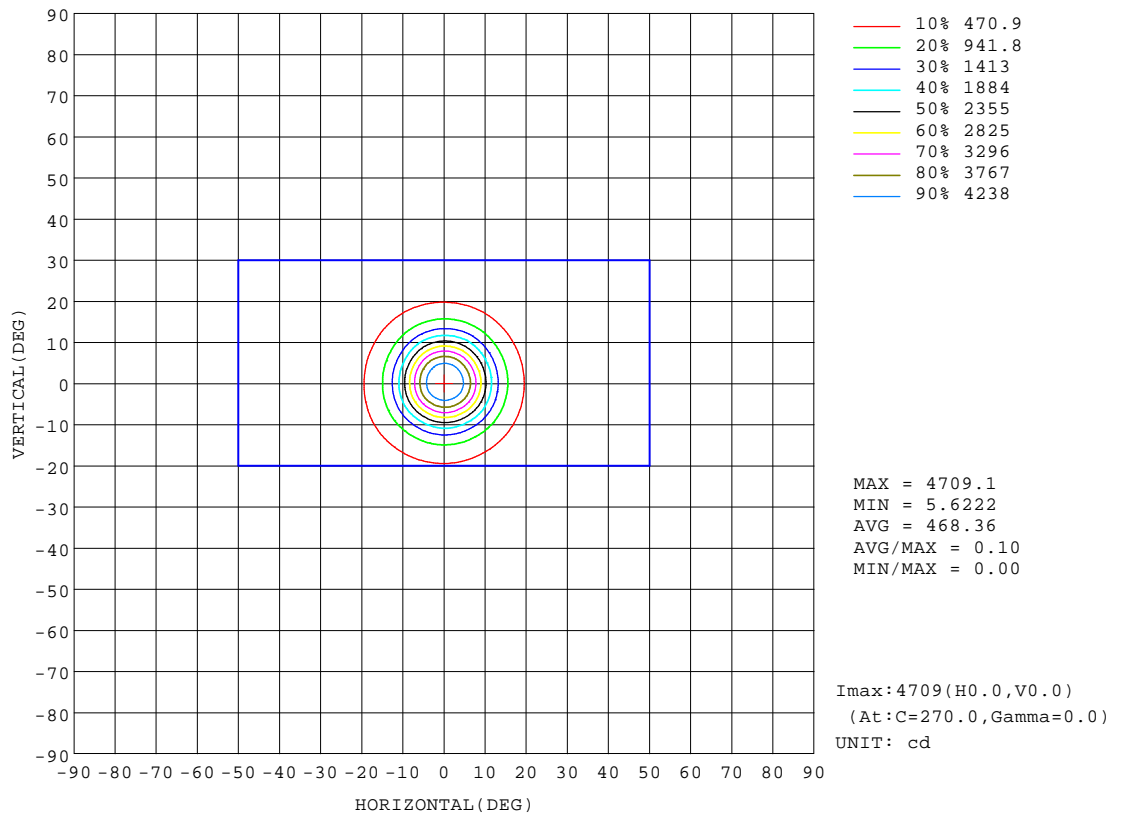
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	76	71	68	75	71	68	75	70	68	65
0.80	82	77	74	81	77	74	80	76	74	71
1.00	85	81	78	84	80	78	83	80	77	74
1.25	88	84	81	87	84	81	86	83	80	77
1.50	90	86	84	89	86	83	87	85	83	79
2.00	92	89	86	91	88	86	89	86	84	80
2.50	94	90	88	92	89	87	90	87	86	81
3.00	95	92	90	93	91	89	90	89	87	82
4.00	96	94	92	95	93	91	92	90	89	83
5.00	97	96	94	96	94	93	92	91	90	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308040976
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

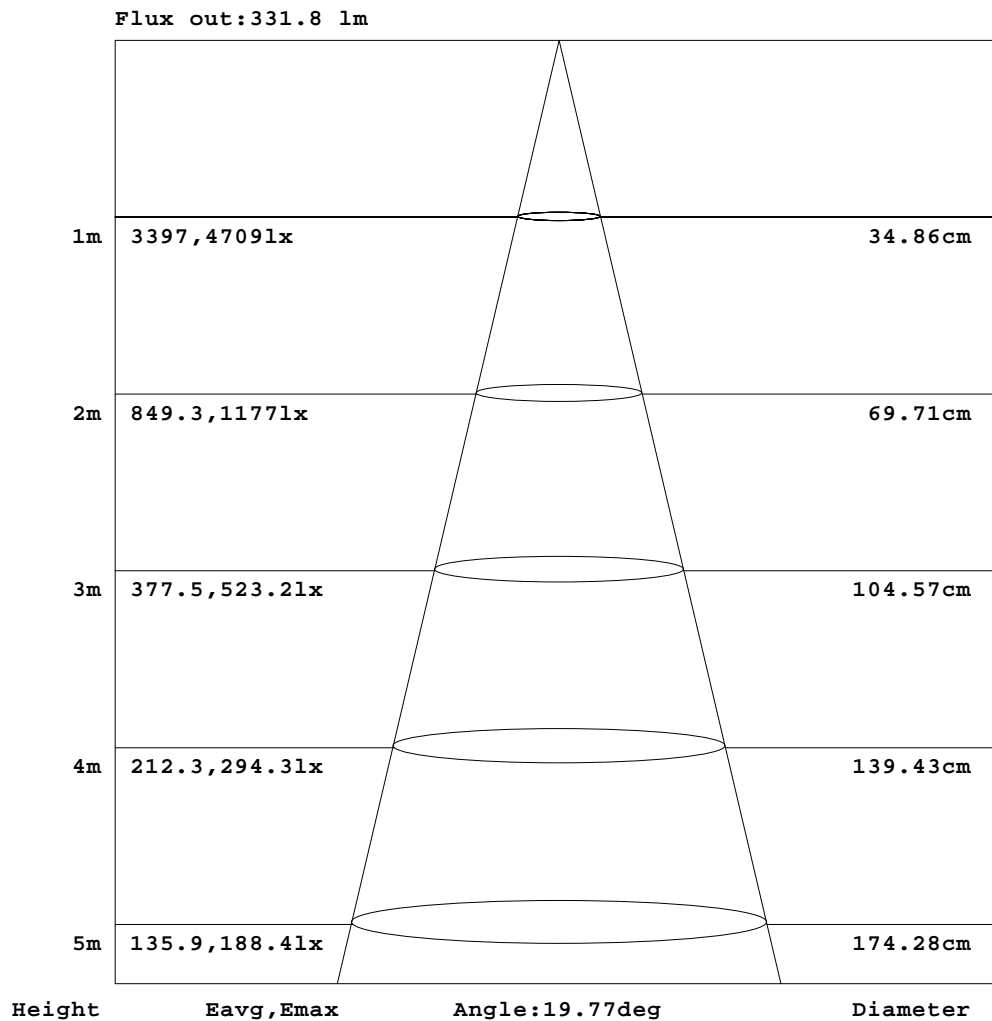


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AAI Figure

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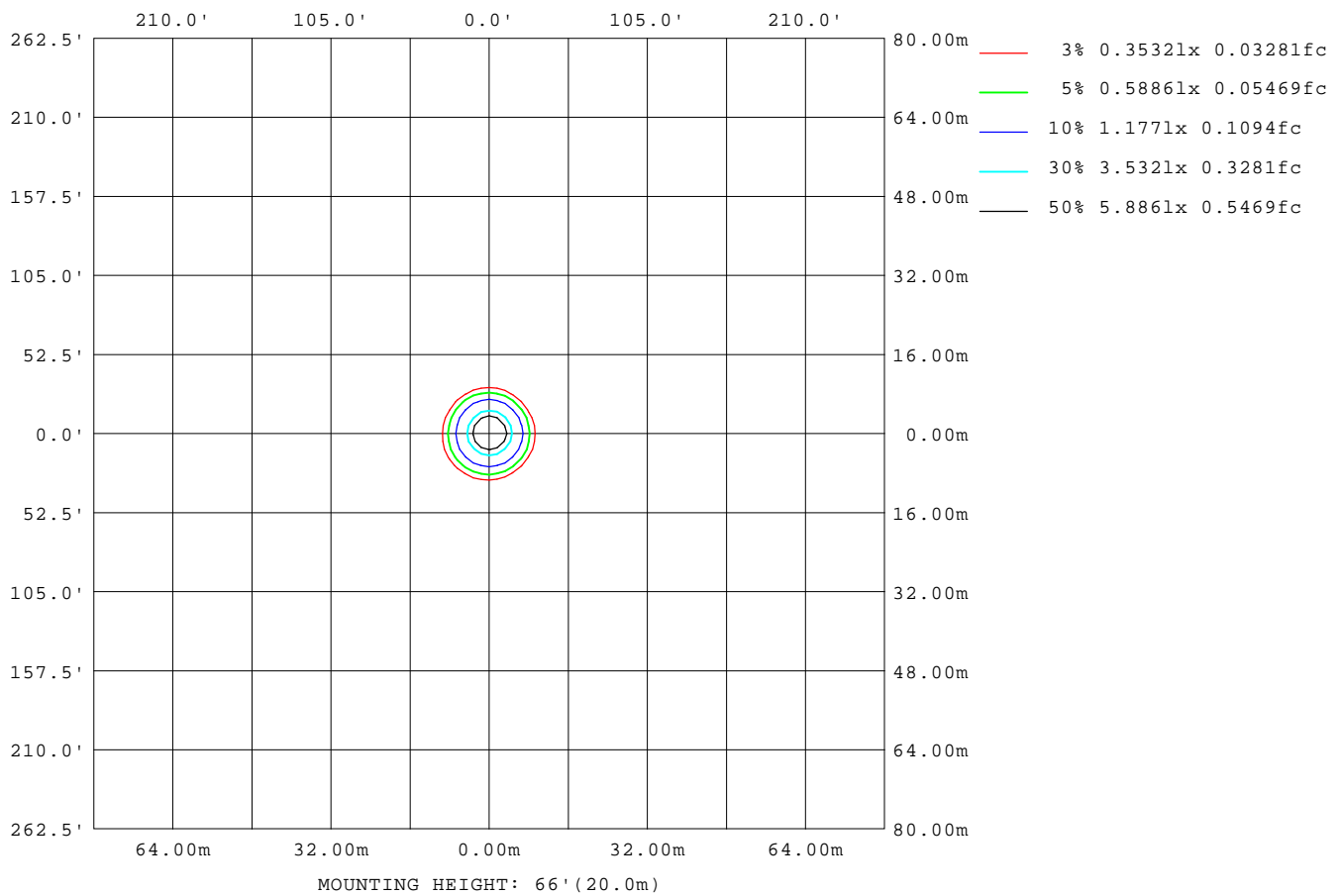
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308040976
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:



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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LED Avg.L Report

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040976
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

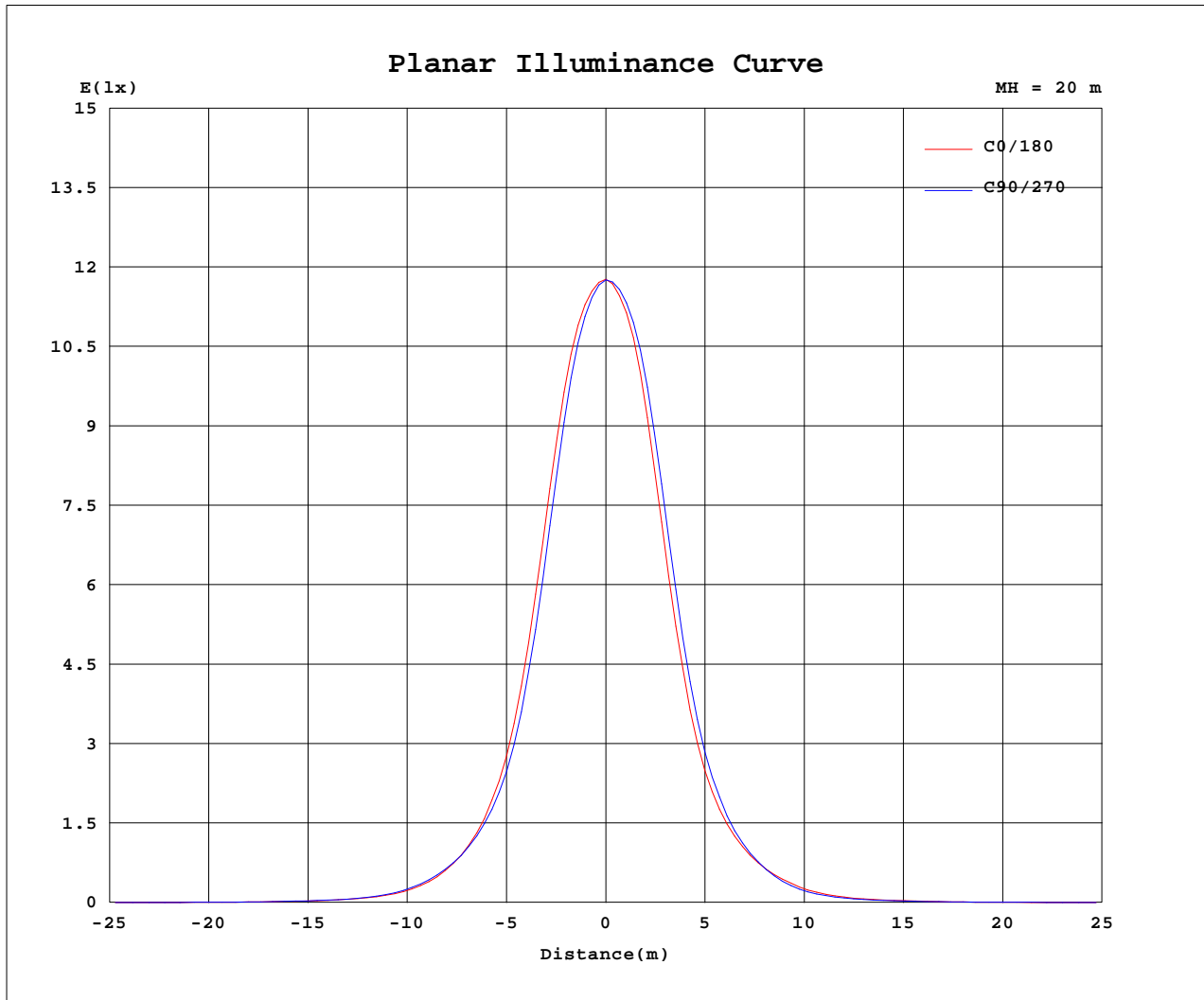
AvgL	cd/m2
L_0~180(65)av	13331
L_0~180(75)av	14331
L_0~180(85)av	9842
L_90~270(65)av	13408
L_90~270(75)av	13849
L_90~270(85)av	9035
L_45(65)av	13382
L_45(75)av	14021
L_45(85)av	11075

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-4

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2023-8-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90
 LENS: PM-1084 15R
 DRIVER: 9290 028 088 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040976
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

Table--1

UNIT: cd

C(DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
γ (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4705	4705	4705	4705	4705	4705	4705	4705	4705	4705	4705	4705						
5	4188	4148	4057	4010	3991	4033	4041	4096	4186	4222	4230	4193						
10	2438	2362	2226	2160	2134	2176	2183	2255	2403	2478	2501	2450						
15	1022	994	938	929	922	941	930	952	1024	1051	1067	1029						
20	434	432	422	432	436	443	430	433	453	450	445	429						
25	175	179	180	189	199	208	198	185	181	173	172	167						
30	69.0	69.9	68.6	74.1	81.3	83.1	78.3	72.9	68.5	65.4	66.2	66.5						
35	32.0	32.7	32.5	34.7	36.5	37.1	35.4	33.5	31.7	30.4	30.4	30.7						
40	17.3	17.9	17.6	18.1	18.5	18.9	18.3	17.7	17.3	16.8	16.5	16.6						
45	9.02	8.86	8.63	8.42	8.30	8.45	8.42	8.61	8.87	9.06	8.93	8.87						
50	6.30	6.29	6.38	6.32	6.39	6.29	6.25	6.29	6.42	6.41	6.37	6.33						
55	5.70	5.74	5.79	5.74	5.77	5.70	5.66	5.76	5.80	5.76	5.72	5.70						
60	5.32	5.34	5.35	5.28	5.32	5.22	5.21	5.28	5.36	5.34	5.32	5.31						
65	4.88	4.90	4.88	4.82	4.77	4.76	4.75	4.79	4.85	4.86	4.85	4.87						
70	4.26	4.23	4.15	4.06	4.05	4.05	4.02	4.03	4.10	4.15	4.20	4.24						
75	3.28	3.25	3.17	2.95	2.64	3.10	3.06	3.06	3.12	3.18	3.24	3.26						
80	2.22	2.21	2.14	2.04	1.71	2.07	1.98	2.02	2.04	2.05	2.19	2.22						
85	0.90	1.00	0.92	0.69	0.67	0.72	0.57	0.65	0.69	0.65	0.89	0.95						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-4

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